



3700

RECEIVED

#7

FEB 04 2003

TECHNOLOGY CENTER R3700

Fresh Air Intake Pre-Filtering  
Device For Make-Up Air

Inventor      John Tocher  
                46456 Portage Avenue  
                Chilliwack B.C.  
                V2P 3G2  
                Canada

Application No. 09/981/060

Art Unit 3749

Filed    October 18/2001

Int.CL.....F24F-13/20  
U.S.....

References Cited  
U.S. Patent Documents

- |           |         |                  |             |
|-----------|---------|------------------|-------------|
| 5,052,286 | 10-1991 | Tubbesing et al. |             |
|           |         |                  | CL. 454/365 |
| 4,509,681 | 04-1985 | Kogut Jimmy A.   |             |
|           |         |                  | CL. 126/112 |
| 4,175,538 | 11-1979 | McCarty Jimmie G |             |
|           |         |                  | CL. 126/109 |
| 4,735,130 | 04-1988 | Seppamaki John W |             |
|           |         |                  | CL.126/112  |
| 5,257,736 | 11-1993 | Roy Donald       |             |
|           |         |                  | CL.165/232  |

Patent Examiner Derek S. Boles  
Group 3700

### Abstract

A fresh air intake pre-filtering device for make-up air is disclosed for use with a circulating forced air heating system and is installed on an outside wall of a building. The device is comprised of a polyethylene material, with an outer flange for securing the fresh air intake to the exterior wall surface. The fresh air intake housing is structured to include an aluminium frame, two sided, raised pattern grill; with a Rx PolyMed filter media which is manufactured from 100% synthetic fibres this is to prevent vermin, insects, pollens, and other pollutants from passing through, and at the same time permitting the ten percent of air flow required by national and regional building codes for residential housing. This washable filter is easily removed and reinstalled due to the pull-tap on the front of the vent housing. The vent is designed to prevent snow and rain from entering the fresh air intake duct. The vent can be easily installed, as it's designed for a retrofit as well as new residential housing. This pre-filtering fresh air intake device is an inexpensive way to protect the residential home from unwanted pest